B.Tech. DEGREE EXAMINATION,
NOVEMBER/DECEMBER 2016.

Third Semester

Computer Science and Engineering

OBJECT ORIENTED PROGRAMMING AND DESIGN

(2013 – 2014 onwards)

Time : Three hours   Maximum : 75 marks

PART A — (10 × 2 = 20 marks)

Answer ALL questions.

All questions carry equal marks.

1.   What is data hiding?

2.   What is a friend function?

3.   Define virtual class.

4.   What is an abstract class?

5.   What is meant by an array? Give an example.

6.   State the use of new and delete operators.

7. Mention the use of templates.

8. What is a file mode?

9. What is UML?

10. State the use of class diagram.

PART B — (5 × 11 = 55 marks)

Answer ALL questions, choosing ONE from each Unit.

All questions carry equal marks.

UNIT I

11. Explain the structure of the C++ program with an example.

Or

12. What is meant by function overloading? Explain in detail.

UNIT II

13. Discuss about dynamic initialization using constructors in detail.

Or

14. What is inheritance? Explain in detail.

UNIT III

15. Discuss about pointer to derived classes and base classes.

Or

16. Explain about declaring and initializing string objects in detail.

UNIT IV

17. Discuss command line arguments in detail.

Or

18. Explain about Exception handling in detail.

UNIT V

19. Discuss about interaction diagrams in detail.

Or

20. Explain about state chart diagrams in detail.

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